## Bardac Communication Module
**MVI46-BDW**

*The MVI46 Bardac Drive module incorporates a powerful library of drive control function blocks for a wide range of applications. The Bardac drive protocol uses UDP over Ethernet to provide robust connectivity between drives, PLCs, operator stations, remote I/O and SCADA systems.*

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# Bardac Communication Module

### MVI46-BDW
The MVI46 Bardac Drive Interface Module allows Rockwell Automation SLC I/O compatible processors to interface easily with Bardac drive.web devices.

## Features and Benefits
The MVI46-BDW module acts as a client collecting and controlling data in a Bardac drive.web compatible device. Four independent clients are contained in the module to interface with Bardac drives simultaneously. The data is passed from the network to the Rockwell Automation backplane. The data transfer from the SLC processor is asynchronous from the actions on the UDP/IP network. A 5000-word register space in the module exchanges data between the processor and the network.

## General Specifications
- Single Slot – 1746 backplane compatible (Local or extended I/O rack only. Remote rack not supported)
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module using M0/M1 files
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included

## Hardware Specifications

| Specification | Description |
|---|---|
| Backplane Current Load | 800 ma @ 5V (from backplane) |
| Operating Temperature | 0 to 60°C (32 to 140°F) |
| Storage Temperature | –40 to 85°C (–40 to 185°F) |
| Relative Humidity | 5 to 95% (non-condensing) |
| Shock | 30g operational, 50g non-operational |
| Vibration | 5 g from 10150 Hz |
| LED indicators | Module status, Backplane transfer status, Application status, Serial activity (debug port), Ethernet link and activity, and error LED status |

| Debug/Configuration port (CFG) | |
|---|---|
| CFG Port (CFG) | RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking |
| Configuration Connector | RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit) |
| **Application Ports** | |
| Ethernet Port (Ethernet Modules) | RJ45 Connector Link and activity LED indicators |

## Functional Specifications

A client configured as a Bardac master device on the MVI46-BDW module will actively issue Bardac-DW commands to other nodes on the Bardac-DW network. One hundred commands are supported for each client. The SLC processor can be programmed to control the activity on the client by actively selecting commands from the command list to execute, or issuing commands directly from the ladder logic.

Some of the general specifications include:

- Support for the storage and transfer of up to 5000 registers to/from the SLC processor's controller tags
- Module memory usage that is completely user-definable
- Ability for the user to define commands to set or get parameters from the Bardac device
- 10/100 MB Ethernet compatible interface
- Supports up to 100 user-defined read or write commands that can be sent to a Bardac device
- Configurable parameters for the client include
  - o Error/Status Pointer
  - o Command Error Pointer
  - o Response Timeout
  - o Retry Count

## Additional Products

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